JVC

KD-A315 / KD-R310

CD RECEIVER / RECEPTOR CON CD / RÉCEPTEUR CD

Detachable

Amplifier Power Standard
CEA
CEA-2006 Compliant

SAT RADIO
R E A D Y

HD Radio®
R E A D Y

COMPACT
DIGITAL AUDIO
TEXT
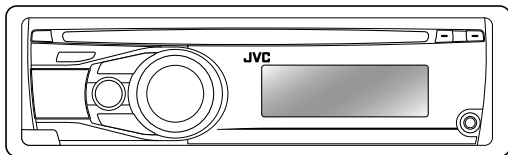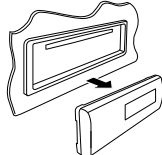
MP3
WMA

For canceling the display demonstration, see page 4. / Para cancelar la demostración en pantalla, consulte la página 4. / Pour annuler la démonstration des affichages, référez-vous à la page 4.

For installation and connections, refer to the separate manual.
Para la instalación y las conexiones, refiérase al manual separado.
Pour l'installation et les raccordements, se référer au manuel séparé.

For customer Use:
Enter below the Model No. and Serial No. which are located on the top or bottom of the cabinet. Retain this information for future reference.
Model No.
Serial No.

INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MANUEL D'INSTRUCTIONS

GET0626-001A
[J]

INFORMATION (For U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

Caution:

Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** (For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.

   (For Canada) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACION LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÅR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1Mレーザー放射が出ます。光学器您で直接見ないでください。(JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

[European Union only]

Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

For safety...

• Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
• Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

How to read this manual

The following icons/symbols are used to indicate:

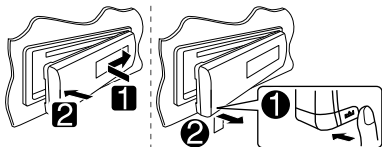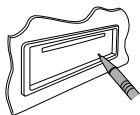|	
[Hold]	Press and hold the button(s) until the desired operation begins.
	Turn the control dial.
	Turn the control dial to make a selection, then press to confirm.
(🔍 XX)	Reference page number
<XXXX>	Menu setting item
📑	Continued on the next page

How to attach/detach the control panel

How to reset your unit

Your preset adjustments will also be erased (except the registered Bluetooth device). (🔍 10)

How to forcibly eject a disc

⏻/SOURCE + ⏏ [Hold]

- You can forcibly eject the loaded disc even if the disc is locked. To lock/unlock the disc, 🔍 8.
- Be careful not to drop the disc when it ejects.
- If this does not work, reset your unit.

Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.
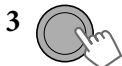
CONTENTS

Canceling the display demonstration

1 Turn on the power.

⏻/SOURCE

2 MENU [Hold]

DEMO
(Initial setting)

3

DEMO ON

4 Select <DEMO OFF>.

DEMO OFF

5

DEMO

6 Finish the procedure.

MENU

Setting the clock

1 Turn on the power.

⏻/SOURCE

2 MENU [Hold]

DEMO
(Initial setting)

3 Select <CLOCK>.

CLOCK ➡ *CLOCK SET*

4 Select <CLOCK SET>.

CLOCK SET ➡

5 Adjust the hour.

1:00 ➡

6 Adjust the minute.
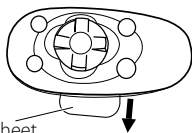
1:00 ➡ *CLOCK SET*

7 Finish the procedure.

MENU

Preparing the remote controller

When you use the remote controller for the first time, pull out the insulation sheet.
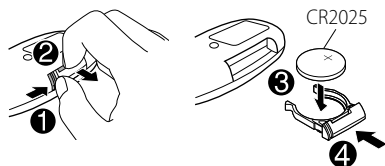

Insulation sheet

For USA-California Only:
This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material—special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate

If the effectiveness of the remote controller decreases, replace the battery.

Replacing the lithium coin battery

CR2025

Caution:

• Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
• Battery shall not be exposed to excessive heat such as sunshine, fire, or the like.
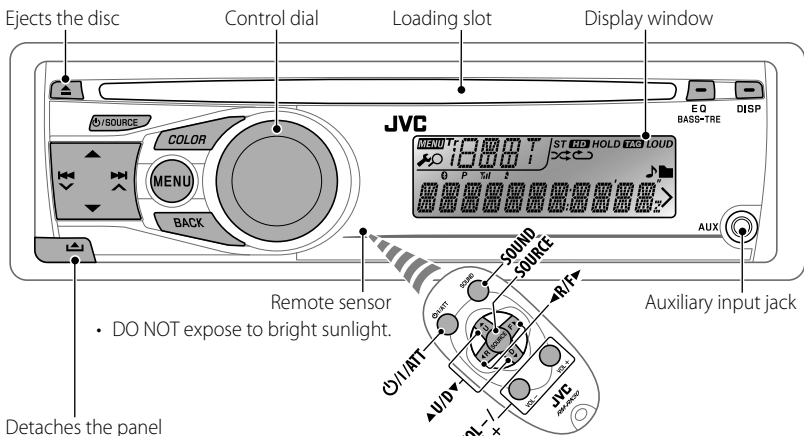
Warning (to prevent accidents and damage):

• Do not install any battery other than CR2025 or its equivalent.
• Do not leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time.
• Store the battery in a place where children cannot reach.
• Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
• Do not leave the battery with other metallic materials.
• Do not poke the battery with tweezers or similar tools.
• Wrap the battery with tape and insulate when throwing away or saving it.

KD-A315 is equipped with the steering wheel remote control function.
Before operating, connect an exclusive remote adapter (not supplied) which matches your car to the steering wheel remote input terminal on the rear of the unit.
• For details, refer also to the instructions supplied with the remote adapter.

Basic operations

Ejects the disc   Control dial   Loading slot   Display window

Remote sensor
• DO NOT expose to bright sunlight.

Auxiliary input jack

Detaches the panel

When you press or hold the following button(s)...

Main unit	Remote controller	General operation
⏻/SOURCE	⏻/I/ATT	Turns on. • When the power is on, pressing ⏻/I/ATT on the remote controller also mutes the sound or pauses. Press ⏻/I/ATT again to cancel muting or resume playback.
		Turns off if pressed and held.
	SOURCE	Selects the available sources (if the power is turned on). • If the source is ready, playback also starts.
	VOL − VOL +	Adjusts the volume level.
	—	Selects items.
	—	• Mutes the sound during playback. If the source is "CD," playback pauses. Press the control dial again to cancel muting or resume playback. • Confirms selection.
EQ BASS-TRE	SOUND	Selects the sound mode. • Enters tone level adjustment directly (🔍 19) if pressed and held **EQ BASS-TRE** on the main unit.
COLOR	—	• Enters <COLOR> setting directly (🔍 22). • Enters <COLOR SETUP> setting directly (🔍 22) if pressed and held.
BACK	—	Returns to the previous menu.
DISP	—	**Power off :** Checks the current clock time. **Power on :** Changes the display information.

Listening to the radio

❶ **⏻/SOURCE** 🔘

⇨ "FM" or "AM"

❷ |◄◄ ⌄ ►►| ⌃ 🔘

"ST" lights up when receiving an FM stereo broadcast with sufficient signal strength.

Manual search

|◄◄ ⌄ ►►| ⌃ 🔘
[Hold]
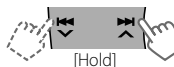
"M" flashes, then press the button repeatedly.

When an FM stereo broadcast is hard to receive

1 **MENU** 🔘 [Hold]

2 🔘➡🔘
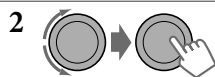
⇨ <TUNER> ⇨ <MONO> ⇨ <MONO ON>
Reception improves, but stereo effect will be lost.

To restore the stereo effect, repeat the same procedure to select <MONO OFF>.

Changing the display information

DISP 🔘
Station name * → **Frequency** → **Clock** → (back to the beginning)

* *If no title is assigned to a station, "NO NAME" appears for a few seconds. To assign a title to a station, 🔍 25.*

Automatic presetting (FM)—

SSM (Strong-station Sequential Memory)

You can preset up to 18 stations for FM.

While listening to a station...

1 **MENU** 🔘 [Hold]

2 🔘➡🔘
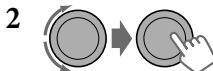
⇨ <TUNER> ⇨ <SSM> ⇨ <SSM 01 – 06> / <SSM 07 – 12> / <SSM 13 – 18>
"SSM" flashes and local stations with the strongest signal are searched and stored automatically.

To preset another 6 stations, repeat the above procedure by selecting one of the other 6 SSM setting ranges.

If an HD Radio tuner box is connected (🔍 15), you can also search and store 6 stations for AM by following the above operations.

Manual presetting (FM/AM)

You can preset up to 18 stations for FM and 6 stations for AM.

Ex.: Storing FM station of 92.50 MHz into preset number "04."

1

⇨ "92.50MHz"

2 [Hold]

"PRESET MODE" flashes.

3
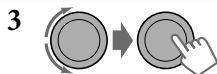
⇨ Selects preset number "04."
"P04" flashes and "MEMORY" appears.

Selecting a preset station

1 MENU

or

2
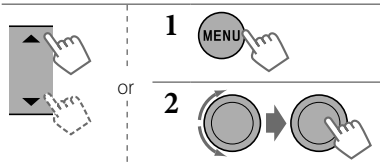
Using the remote controller

▲ U/D ▼	: Changes the preset stations
◄ R/F ►	: Searches for stations

Listening to a disc

① ⏻/SOURCE

②

All tracks will be played repeatedly until you change the source or eject the disc.

Stopping playback and ejecting the disc

⏏ "NO DISC" appears. Press ⏻/**SOURCE** to listen to another playback source.
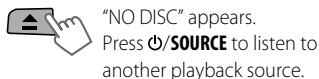
Prohibiting disc ejection

◯ + ⏏ [Hold]

To cancel the prohibition, repeat the same procedure.

Selects folder of the MP3/WMA

Selects track

[Hold] Fast-forwards or reverses the track

Selecting a track/folder

1

MENU

2
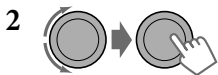
For MP3/WMA discs, select the desired folder, then the desired track by repeating step **2**.
• To return to the previous menu, press **BACK**.

Changing the display information

DISP

Disc title/Album name/performer (folder name)* → **Track title (file name)*** → **Current track number with the elapsed playing time** → **Current track number with the clock time** → (back to the beginning)

* *If the current disc is an audio CD, "NO NAME" appears.*
  If an MP3/WMA file does not have Tag information or <TAG DISPLAY> is set to <TAG OFF> (🔍 21), folder name and file name appear.

Caution on volume setting:

Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

Selecting the playback modes

You can use only one of the following playback modes at a time.

1

[Hold]

2

⇨ "REPEAT" ⟷ "RANDOM"

3
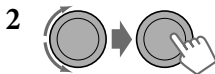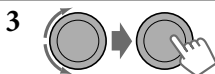
REPEAT
TRACK RPT   : Repeats current track
FOLDER RPT : Repeats current folder

RANDOM
FOLDER RND : Randomly plays all tracks of current folder, then tracks of next folders
ALL RND   : Randomly plays all tracks

To cancel repeat play or random play, select "RPT OFF" or "RND OFF."

Using the remote controller

▲ U/D ▼	:	Selects folder of the MP3/WMA
◄ R/F ►	:	Selects track
◄ R/F ► [Hold]	:	Fast-forwards or reverses the track

Using Bluetooth® devices

For Bluetooth operations, it is required to connect the Bluetooth adapter, KS-BTA200 (not supplied) to the expansion port on the rear of this unit.

- Refer to pages **i** and **ii** at the end of the manual to check the countries where you may use the Bluetooth® function.
- For details, refer also to the instructions supplied with the Bluetooth adapter and the Bluetooth device.

To use a Bluetooth device through the unit ("BT-PHONE" and "BT-AUDIO") for the first time, you need to establish a Bluetooth wireless connection between the unit and the device.

- Once the connection is established, it is registered on the unit even if you reset your unit. Up to five devices can be registered in total.
- Only one device can be connected at a time for each source ("BT-PHONE" and "BT-AUDIO").

Registration (Pairing) methods

Use either of the following items ("OPEN" or "SEARCH") in the Bluetooth menu to register and make the unit ready to establish a new Bluetooth connection with a device.

"OPEN" : Connection is established by operating the Bluetooth device.
"SEARCH" : Connection is established by operating the unit.

Registering using "OPEN"

Preparation: Operate the device to turn on its Bluetooth function.

1

⇨ "BT-PHONE" or "BT-AUDIO"

2

⇨ "NEW DEVICE" ⇨ "OPEN"

3

⇨ Enter a PIN (Personal Identification Number) code in to the unit.
You can enter any number you like (1-digit to 16-digit number).
[Initial: 0000]
- Some devices have their own PIN code. Enter the specified PIN code in to the unit.

4 Repeat step **3** until you have finished entering the PIN code.

5

"OPEN.." flashes.

6 Use the Bluetooth device to search and connect.
On the device to be connected, enter the same PIN code you have just entered for this unit. "CONNECTED" appears.
Now connection is established and you can use the device through the unit.

The device remains registered even after you disconnect the device. Use "CONNECT" (or activate "AUTO CNNCT") to connect the same device from next time on. (🔍 11, 14)

Registering a device ("SEARCH"/"SPECIAL")

1 ⏻/SOURCE

⇨ "BT-PHONE" or "BT-AUDIO"

2 |◄◄ ►►| ➡ ▼

⇨ "NEW DEVICE"

3 |◄◄ ►►| ➡ ▼

⇨ "SEARCH" : To search for available devices
The unit searches and displays the list of the available devices. "UNFOUND" appears if no available device is detected.

– – – – – or – – – – –

⇨ "SPECIAL" : To connect a special device
The unit displays the list of the preset devices.

4 |◄◄ ►►| ➡ ▼

⇨ Select a device you want to connect.

5 **For available devices...**
⇨ Enter the specific PIN code of the device to the unit.
• Refer to the instructions supplied with the device to check the PIN code.
Use the Bluetooth device to connect.
Now connection is established and you can use the device through the unit.

For special device...
Use "OPEN" or "SEARCH" to connect.

Connecting/disconnecting/ deleting a registered device

1 ⏻/SOURCE

⇨ "BT-PHONE" or "BT-AUDIO"

2 |◄◄ ►►| ➡ ▼
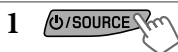
⇨ Select a device you want to connect/disconnect/delete.

3 |◄◄ ►►| ➡ ▼

⇨ "CONNECT" or "DISCONNECT" : To connect/disconnect the selected device
– – – – – or – – – – –
⇨ "DELETE" ⇨ "YES" : To delete the selected device

You can set the unit to connect the Bluetooth device automatically when the unit is turned on. ("AUTO CNNCT," 🔍 14)

Using a Bluetooth mobile phone

❶ ⏻/SOURCE

⇨ "BT-PHONE"

❷ ▼

⇨ Bluetooth menu

❸ **Make a call or setting using the Bluetooth setting menu. (🔍 13)**
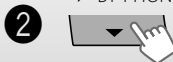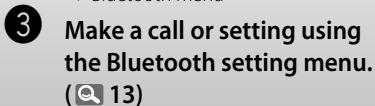
When a call comes in....

The source is automatically changed to "BT-PHONE."
- The display will flash in blue. (<RING COLOR>, 🔍 22)

When "AUTO ANSWER" is activated....

The unit answers the incoming calls automatically. (🔍 14)
- When "AUTO ANSWER" is deactivated, press any button (except ⏻ /**SOURCE** / ⌂ / ⏏) to answer the incoming call.
- You can adjust the microphone volume level. (🔍 14)

To end the call

Hold any button (except ⏻ /**SOURCE** / ⌂ / ⏏).

When a text message comes in....

If the mobile phone is compatible with text message (notified through JVC Bluetooth adapter) and "MSG INFO" (message info) is set to "AUTOMATIC" (🔍 14), the unit rings to inform you of the message arrival.
- "RCV MESSAGE" (receiving message) appears and the display illuminate in blue. (<RING COLOR>, 🔍 22)

Using the remote controller

▲ U/D ▼/ ◄ R/F ►/**SOURCE**	:	Answers calls
▲ U/D ▼/ ◄ R/F ►/**SOURCE** [Hold]	:	Rejects calls

Making a call

1 ⏻/**SOURCE**
⇨ "BT-PHONE"

2 ▼

3 |◄◄ ►►| ➡ ▼
⇨ Select "DIAL" menu.

4 |◄◄ ►►| ➡ ▼
⇨ Select a calling method.
PHONE BOOK* ←→ **MISSED*** ←→
NUMBER ←→ **VOICE DIAL** ←→
REDIAL*←→ **RECEIVED*** ←→ (back to the beginning)

5 **For REDIAL, RECEIVED, MISSED**
⇨ Repeat step **4** to select a name (if it is acquired) or a phone number.

For PHONE BOOK
⇨ Repeat step **4** to select a name or a phone number.

For NUMBER

⇨ Enter a phone number.

▼

⇨ Confirm.

For VOICE DIAL
⇨ Speak the name you want to call when "SAY NAME" appears.
- If your mobile phone does not support the voice recognition system, "ERROR" appears.
- Using voice tags may be difficult in a noisy environment or during an emergency.

- To return to the previous menu, press ▲.

- * *Displays only when your mobile phone is equipped with these functions and is compatible with this unit.*

Using a Bluetooth audio player

⇨ "BT-AUDIO"
If playback does not start, operate the Bluetooth audio player to start playback. Operate the Bluetooth audio player to pause (if playback does not pause when you change the source).

	Reverse skips/forward skips
	Pauses/starts playback* *Operation may be different according to the connected Bluetooth audio player.
	Enter setting menu (Device list)

For connecting/disconnecting/deleting a registered device, 🔍 11.

Using the remote controller

	◄R/F► : Reverse skips/forward skips

Changing the Bluetooth settings

1

⇨ "BT-PHONE" or "BT-AUDIO"

2

⇨ Bluetooth menu

3

⇨ "SETTINGS"

4

⇨ Select a setting item.
AUTO CNNCT ←→ AUTO ANSWER*1
←→ MSG INFO*2 **←→ MIC SETTING***1
←→ VERSION*3 **←→** (back to the beginning)

5

⇨ Change the setting accordingly. For setting menu, 🔍 14.

*1 *Appears only when a Bluetooth phone is connected.*
*2 *Appears only when a Bluetooth phone is connected and it is compatible with text message (notified through JVC Bluetooth adapter).*
*3 *Bluetooth Audio: Shows only "Version."*

Setting menu (___ : Initial)

AUTO CNNCT (connect)
When the unit is turned on, the connection is established automatically with...

OFF: No Bluetooth device.

LAST: The last connected Bluetooth device.

ORDER: The available registered Bluetooth device found at first.

AUTO ANSWER
Only for the device being connected for "BT PHONE."

ON: The unit answers the incoming calls automatically.

OFF: The unit does not answer the calls automatically. Answer the calls manually.

REJECT: The unit rejects all incoming calls.

MSG INFO (message info)
Only for the device being connected for "BT-PHONE."

AUTOMATIC: The unit informs you of the arrival of a message by ringing and displaying "RCV MESSAGE" (receiving message).
- The display illuminate in blue. (<RING COLOR>, 🔍 22)

MANUAL: The unit does not inform you of the arrival of a message.

MIC SETTING (microphone setting)
Only for the device being connected for "BT-PHONE." Adjust microphone volume connected to the Bluetooth adapter, [**LEVEL 01/02/03**].

VERSION
The Bluetooth software and hardware versions are shown.

Warning messages

ERROR CNNCT (Error Connection)
The device is registered but the connection has failed. Use "CONNECT" to connect the device again. (🔍 11)

ERROR
Try the operation again. If "ERROR" appears again, check if the device supports the function you have tried.

UNFOUND
No available Bluetooth device is detected by "SEARCH."

LOADING*
The unit is updating the phone book.

PLEASE WAIT
The unit is preparing to use the Bluetooth function. If the message does not disappear, turn off and turn on the unit, then connect the device again (or reset the unit).

RESET 8
Check the connection between the adapter and this unit.

* Displays only when your mobile phone is equipped with these functions and is compatible with this unit.

Bluetooth Information:
If you wish to receive more information about Bluetooth, visit the following JVC web site: <http://www.jvc.co.jp/english/car/> (English website only)

Listening to the HD Radio™ Broadcast

Before operating, connect HD Radio tuner box, KT-HD300 (not supplied) to the expansion port on the rear of the unit.
• For details, refer also to the instructions supplied with the HD Radio tuner box.

What is HD Radio Technology?

HD Radio Technology can deliver high-quality digital sound—AM digital will have FM-like quality (in stereo) and FM digital will have CD-like quality—with static-free and clear reception. Furthermore, stations can offer text and data, such as artist names and song titles.
• When the HD Radio tuner box is connected, it can also receive conventional analog broadcasts.
• Many HD Radio stations also offer more than one channel of programming. This service is called multicasting.
• To find HD Radio stations in your area, visit <http://www.hdradio.com/>.

For basic radio operations, 🔍 **7, 8.**

When receiving...
An HD Radio station

Lights up when digital audio is broadcast
Flashes when analog audio is broadcast

Station Call Sign appears.

HD Radio multicast channels

First four letters of Call Sign

Channel number
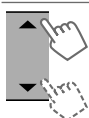
Select your desired channel.
HD1 ←→ HD2 ←→ .... ←→ HD8
←→ (back to the beginning)

"LINKING" appears while linking to a multicast channel.

Searching for HD Radio stations only
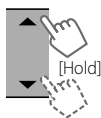
"HD" flashes.

[Hold]

Changing HD Radio reception mode

While receiving an HD Radio broadcast, the unit receives digital or analog audio automatically due to the receiving condition.

While listening to an HD Radio station...

1   [Hold]

2
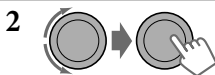
⇨ <TUNER> ⇨ <BLEND HOLD> ⇨ <AUTO> / <DIGITAL> / <ANALOG>
"HD" lights up when holding the digital reception or flashes when holding the analog reception.

• If no sound can be heard with <AUTO>, change the setting to <ANALOG> or <DIGITAL>.
• The setting automatically changes to <AUTO> if you tune in to or change to another station, or if you turn off the power.

- This setting cannot take effect for the conventional FM/AM stations.
- If the radio station forces the reception mode to digital, the HOLD indicator flashes.

Using the remote controller

▲ U/D ▼	: Changes the preset stations
◄ R/F ►	: Searches for stations

Changing the display information

DISP → **Call Sign** *¹ → **Frequency** → **Title/artist/album name of the current segment** *² → **Clock** → (back to the beginning)

*¹ *" **** -FM" or " **** " appears when no Call Sign is received.*

*² *"NO TEXT" appears when no text is received.*

Listening to the satellite radio

Before operating, connect either one of the following systems (not supplied) to the expansion port on the rear of this unit.

For listening to a SIRIUS Satellite radio:
- SC-C1 and KS-SRA100
- PnP, SC-VDOC1 and KS-SRA100

For listening to an XM Satellite radio:
- JVC Smart Digital Adapter (XMDJVC100)
- CNP2000UC and CNPJVC1

- For details, refer also to the instructions supplied with the other components.

GCI (Global Control Information) update

- If channels are updated after subscription, updating starts automatically. "UPDATING" flashes and no sound can be heard.
- Update takes a few minutes to complete.
- During update, you cannot operate your satellite radio.

➊ **/SOURCE**

⇨ "SIRIUS" or "XM"

➋

⇨ Select a category.
SIRIUS: If you select "ALL," you can tune in to all the channels of all categories.

➌

⇨ Select a channel to listen.
Holding the button changes the channels rapidly.
While searching, invalid and unsubscribed channels are skipped.
XM: If you do not select a channel within 15 seconds, category selected in step ➋ is canceled. You can select all channels of all categories now (including non-categorised channels).

Activate your SIRIUS subscription after connection

1 ⏻/SOURCE

⇨ "SIRIUS"
SIRIUS Satellite radio starts updating all the SIRIUS channels. Once completed, SIRIUS Satellite radio tunes in to the preset channel, CH184.

2 Check your SIRIUS ID. (🔍 21)
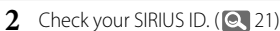
3 Contact SIRIUS on the internet at <http://activate.siriusradio.com/> to activate your subscription, or you can call SIRIUS toll-free at 1-888-539-SIRIUS (7474).
 • "SUB UPDT PRESS ANY KEY" scrolls on the display once subscription has been completed.

Activate your XM subscription after connection

• Only Channel 0, 1, and 247 are available before activation.

1 ⏻/SOURCE

⇨ "XM"
XMDirect™ Tuner Box or XMDirect2 Tuner System starts updating all the XM channels. "Channel 1" is tuned in automatically.

2 Check your XM Satellite radio ID labelled on the casing of the XMDirect™ Tuner Box or XMDirect2 Tuner System, or tune in to "Channel 0". (🔍 right column)
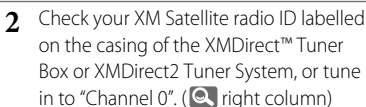
3 Contact XM Satellite radio on the internet at <http://xmradio.com/activation/> to activate your subscription, or you can call 1-800-XM-RADIO (1-800-967-2346).
 • Once completed, the unit tunes in to one of the available channels (Channel 4 or higher).

Storing channels in memory

You can preset up to 18 channels for both SIRIUS and XM.

Ex.: Storing channel into preset number "04."

1 Tune in to a channel you want to store. (Steps ❶ – ❸, 🔍 16.)

2 MENU

3 ⟳

⇨ Select preset number "04."

4 [Hold]

"P04" flashes.

Selecting SIRIUS/XM preset station

1 MENU

2 ⟳ ➡ 🔘
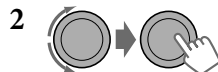
Checking the satellite radio ID

While selecting "SIRIUS" or "XM"...

⇨ Select "Channel 0."
SIRIUS: SIRIUS identification number is displayed after "Channel 0" is selected.
XM: The display alternately shows "RADIO ID" and the 8-digit (alphanumeric) ID number.

To cancel the ID number display, select any channel other than "Channel 0."

Using the remote controller

▲ U/D ▼	:	Changes the categories
◄ R/F ►	:	Changes the channels
◄ R/F ► [Hold]	:	Changes the channels rapidly

Changing the display information

Category name → Channel name → Artist name → Composer name* → Song/program name/title → Clock → (back to the beginning)

Only for SIRIUS Satellite radio.

Listening to the other external components

You can connect an external component to:

• **EXT INPUT:** Expansion port on the rear of this unit using the following adapters (not supplied):
  - **KS-U57,** Line Input Adapter
  - **KS-U58,** AUX Input Adapter

  Preparation: Make sure <EXT ON> is selected for the <SRC SELECT> → <EXT IN> setting. (🔍 24)

• **AUX IN:** AUX (auxiliary) input jack on the control panel.

  Preparation: Make sure <AUX ON> is selected for the <SRC SELECT> → <AUX IN> setting. (🔍 24)

• For details, refer also to the instructions supplied with the adapter or external components.

❶ ⏻/SOURCE
⇨ "EXT INPUT" or "AUX IN"

❷ Turn on the connected component and start playing the source.

❸ ⇨ Adjust the volume.

❹ **Adjust the sound as you want.** (🔍 19)

Connecting an external component to the AUX input jack

AUX

Portable audio player, etc.

3.5 mm (3/16″) stereo mini plug (not supplied)
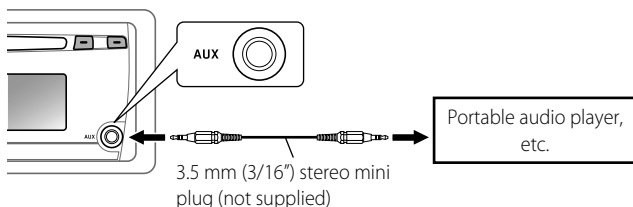
Selecting a preset sound mode

You can select a preset sound mode suitable for the music genre.

FLAT ➜ NATURAL ➜ DYNAMIC ➜ VOCAL BOOST ➜ BASS BOOST ➜ USER ➜ (back to the beginning)

While listening, you can adjust the tone level of the selected sound mode.

1 [Hold]

2
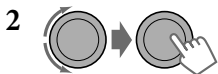
Adjust the level (–06 to +06) of the selected tone (BASS / MIDDLE / TREBLE). The sound mode is automatically stored and changed to "USER."

Tone	Sound element		
	Frequency	**Level**	**Q**
BASS	60 Hz	–06 to +06	Q1.0
	80 Hz		Q1.25
	100 Hz		Q1.5
	200 Hz		Q2.0
MIDDLE	0.5 kHz	–06 to +06	Q0.75
	1.0 kHz		Q1.0
	1.5 kHz		Q1.25
	2.5 kHz		
TREBLE	10.0 kHz	–06 to +06	Q FIX
	12.5 kHz		
	15.0 kHz		
	17.5 kHz		

Storing your own sound mode

You can store your own adjustments in memory.

1 [Hold]

2

⇨ <PRO EQ> ⇨ <BASS> / <MIDDLE> / <TREBLE>

3
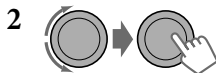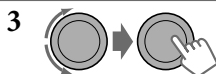
Adjust the sound elements of the selected tone. (🔍 table on the left)
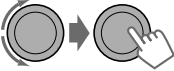
4 Repeat steps **2** and **3** to adjust other tones.
The adjustments made will be stored automatically in "USER."

The current sound mode changes to "USER" automatically.

Menu operations

1	2	3
MENU [Hold]	⟳➡⟳	Repeat step **2** if necessary. • To return to the previous menu, press **BACK**. • To exit from the menu, press **DISP** or **MENU**.

Category	Menu item	Selectable setting, [Initial: __Underlined__]	
DEMO	**DEMO** Display demonstration	• __DEMO ON__	: Display demonstration will be activated automatically if no operation is done for about 20 seconds. (🔍 4)
		• **DEMO OFF**	: Cancels.
CLOCK	**CLOCK SET** Clock setting	— [**1:00**]	: Adjust the hour, then the minute. (🔍 4)
	CLOCK ADJ *1 Clock adjustment	• __AUTO__	: The built-in clock is automatically adjusted using the clock data provided via the satellite radio channel.
		• **OFF**	: Cancels.
	TIME ZONE *1, *2	__EASTERN,__ **ATLANTIC, NEWFOUND, ALASKA, PACIFIC, MOUNTAIN, CENTRAL**	: Select your residential area from one of the time zones for clock adjustment.
	DST *1, *2 Daylight savings time	• __DST ON__	: Activates daylight savings time if your residential area is subject to DST.
		• **DST OFF**	: Cancels.
PRO EQ	**BASS**	—	: For settings, 🔍 19.
	MIDDLE		
	TREBLE		

*1 *Displayed only when SIRIUS Satellite radio or XM Satellite radio is connected.*
*2 *Displayed only when <CLOCK ADJ> is set to <AUTO>.*

Category	Menu item	Selectable setting, [Initial: **Underlined**]	
DISPLAY	**DIMMER**	• **DIMMER ON**	: Dims the display and button illumination.
		• **DIMMER OFF**	: Cancels.
	SCROLL *3	• **SCROLL ONCE** : Scrolls the displayed information once.	
		• **SCROLL AUTO** : Repeats scrolling (at 5-second intervals).	
		• **SCROLL OFF** : Cancels.	
		Pressing **DISP** for more than one second can scroll the display regardless of the setting.	
	TAG DISPLAY	• **TAG ON**	: Shows the Tag information while playing MP3/ WMA tracks.
		• **TAG OFF**	: Cancels.
TUNER	**SSM** Strong-station Sequential Memory	• **SSM 01 – 06** *4	: For settings, 🔍 7.
		• **SSM 07 – 12**	
		• **SSM 13 – 18**	
	AREA Tuner channel interval	• **AREA US**	: When using in North/Central/South America. AM/FM intervals are set to 10 kHz/200 kHz.
		• **AREA EU**	: When using in any other areas. AM/FM intervals are set to 9 kHz/50 kHz (100 kHz during auto search).
		• **AREA SA**	: When using in South American countries where FM interval is 100 kHz. AM interval is set to 10 kHz.
	MONO *5 Monaural mode	• **MONO ON**	: Activate monaural mode to improve FM reception, but stereo effect will be lost. (🔍 7)
		• **MONO OFF**	: Restore the stereo effect.
	SID *6 SIRIUS ID	—	: Your SIRIUS identification number scrolls on the display 5 seconds after "SID" is selected. (🔍 17) If no operation is done for about 60 seconds, the unit returns to playback mode.
	BLEND HOLD *7 HD Radio reception mode	• **AUTO**	: Switch between digital and analog audio automatically. (🔍 15)
		• **DIGITAL**	: Tune in to digital audio only.
		• **ANALOG**	: Tune in to analog audio only.

*3 *Some characters or symbols will not be shown correctly (or will be blanked) on the display.*

*4 *If an HD Radio tuner box is connected, you can also search and store the AM stations to <SSM 01 – 06>.*

*5 *Displayed only when the source is "FM" or "HD Radio."*

*6 *Displayed only when SIRIUS Satellite radio is connected.*

*7 *Displayed only when HD Radio tuner box is connected.*

Category	Menu item	Selectable setting, [Initial: **Underlined**]	
TUNER	**IF BAND** Intermediate frequency band	• **AUTO**	: Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.)
		• **WIDE**	: Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.
COLOR	**BUTTON ZONE**	**COLOR 01 — COLOR 29, USER**	: For settings, 🔍 24. [**COLOR 06**]
	DISP ZONE Display zone		: For settings, 🔍 24. [**COLOR 01**]
	ALL ZONE		: For settings, 🔍 24. [**COLOR 06**]
COLOR SETUP	**DAY COLOR**	• **BUTTON ZONE** • **DISP ZONE**	: For settings, 🔍 24, 25.
	NIGHT COLOR	• **BUTTON ZONE** • **DISP ZONE**	: For settings, 🔍 24, 25.
	MENU COLOR	• **ON**	: Changes the display and buttons (except for ⏏ / **EQ BASS-TRE** / **DISP**) illumination during menu, list search and playback mode operations.
		• **OFF**	: Cancels.
	RING COLOR *8	• **ON**	: When a call comes in, the display will flash in blue. • The display will change to the original color when the call is answered or the incoming call stops. When the unit receives a text message, the display only illuminate in blue.
		• **OFF**	: Cancels.
AUDIO	**FADER** *9	**R06 – F06** [**00**]	: Adjust the front and rear speaker output balance.
	BALANCE *10	**L06 – R06** [**00**]	: Adjust the left and right speaker output balance.
	LOUD Loudness	• **LOUD ON**	: Boost low and high frequencies to produce a well-balanced sound at a low volume level.
		• **LOUD OFF**	: Cancels.

*8 *Displayed only when Bluetooth adapter, KS-BTA200 is connected.*

*9 *If you are using a two-speaker system, set the fader level to "00."*

*10 *This adjustment will not affect the subwoofer output.*

Category	Menu item	Selectable setting, [Initial: **Underlined**]	
AUDIO	**VOL ADJUST** Volume adjust	**VOL ADJ –05 —** **VOL ADJ +05** [**VOL ADJ 00**]	: Preset the volume adjustment level of each source (except FM), compared to the FM volume level. The volume level will automatically increase or decrease when you change the source. • Before making an adjustment, select the source you want to adjust. • "VOL ADJ FIX" appears on the display if "FM" is selected as the source.
	L/O MODE Line output mode	• **SUB.W**	: Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier).
		• **REAR**	: Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier).
	SUB.W FREQ *11 Subwoofer cutoff frequency	• **LOW**	: Frequencies lower than 72 Hz are sent to the subwoofer.
		• **MID**	: Frequencies lower than 111 Hz are sent to the subwoofer.
		• **HIGH**	: Frequencies lower than 157 Hz are sent to the subwoofer.
	SUB.W LEVEL *11 Subwoofer level	**SUB.W 00 —** **SUB.W 08** [**SUB.W 04**]	: Adjust the subwoofer output level.
	BEEP Keytouch tone	• **BEEP ON** • **BEEP OFF**	: Activates the keypress tone. : Deactivates the keypress tone.
	AMP GAIN *12 Amplifier gain control	• **LOW POWER**	: VOLUME 00 – VOLUME 30 (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speakers.)
		• **HIGH POWER**	: VOLUME 00 – VOLUME 50

*11 *Displayed only when <L/O MODE> is set to <SUB.W>.*

*12 *The volume level automatically changes to "VOLUME 30" if you change to <LOW POWER> with the volume level set higher than "VOLUME 30."*

Category	Menu item	Selectable setting, [Initial: **Underlined**]	
SRC SELECT	**AM** *13 AM station	• **AM ON** • **AM OFF**	: Enable "AM" in source selection. : Disable "AM" in source selection.
	EXT IN *14 External input	• **EXT ON** • **EXT OFF**	: Enable "EXT IN" in source selection. : Disable "EXT IN" in source selection.
	AUX IN *15 Auxiliary input	• **AUX ON** • **AUX OFF**	: Enable "AUX IN" in source selection. : Disable "AUX IN" in source selection.

*13 *Displayed only when any source other than "AM" is selected.*

*14 *Displayed only when any source other than "EXT INPUT" is selected.*

*15 *Displayed only when any source other than "AUX IN" is selected.*

Selecting the variable buttons and display color illumination

You can select your preferred color for buttons illumination (except for ▲ / **EQ BASS-TRE** / **DISP**) and display color seperately.

Button zone   Display zone

All zone

1 [Hold] or

2

⇨ <COLOR> ⇨ <BUTTON ZONE> / <DISP ZONE> / <ALL ZONE>
• Pressing **COLOR** in step **1** will enter zone selection menu (BUTTON ZONE / DISP ZONE / ALL ZONE) directly.

3

⇨ Select your preferred color from one of the 29 preset colors or <USER> color.
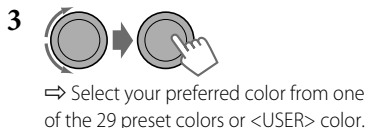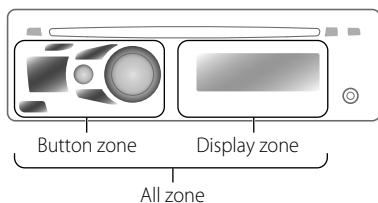
4 Repeat steps **2** and **3** to select a different zone and your preferred color.
• If <ALL ZONE> is selected in step **2**, the buttons and display illumination changed to the current/selected <BUTTON ZONE> color.
You can also change the <ALL ZONE> color to one of your preferred color by performing step **3**.

5 or

⇨ Exit from the setting.
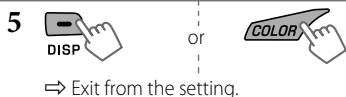
Creating your own day and night colors—USER

You can create your own colors for <DAY COLOR> and <NIGHT COLOR> to apply to button zone and display zone.
• <DAY COLOR>   Displayed when <DIMMER> is set to <DIMMER OFF>.
• <NIGHT COLOR> Displayed when <DIMMER> is set to <DIMMER ON>.

Menu hierarchy			Operation
COLOR SETUP	DAY COLOR	• BUTTON ZONE	Follow example below.
		• DISP ZONE	Press **BACK** after step **5**, then select DISP ZONE in step **2**.
	NIGHT COLOR	• BUTTON ZONE	Press **BACK** after step **5**, then select NIGHT COLOR in step **2**.
		• DISP ZONE	

Ex.: Creating <USER> color for <BUTTON ZONE> in <DAY COLOR>.

1
 MENU [Hold] or COLOR [Hold]

2

⇨ <COLOR SETUP> ⇨ <DAY COLOR>
⇨ <BUTTON ZONE>
• Holding **COLOR** in step **1** will enter zone selection menu (BUTTON ZONE / DISP ZONE) directly.

3

⇨ Select a primary color.
RED ⟷ **GREEN** ⟷ **BLUE** ⟷ (back to the beginning)

4

⇨ Adjust the level of the selected primary color.
00 to **31**

5 Repeat steps **3** and **4** to adjust other primary colors.

6
DISP or COLOR
⇨ Exit from the setting.
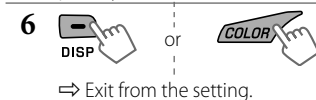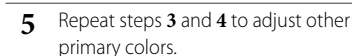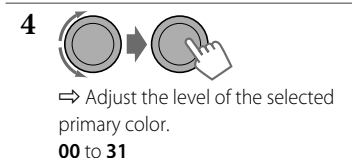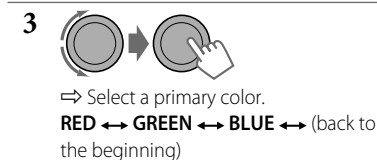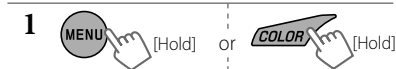
Title assignment

You can assign titles to 30 station frequencies (FM and AM) using 8 characters (maximum) for each title.
• If you try to assign titles to more than 30 station frequencies, "NAME FULL" appears. Delete unwanted titles before assignment.
• When HD Radio tuner box is connected, this feature will be disabled.

1 ⏻/SOURCE
⇨ "FM" or "AM"

2 DISP + [Hold]
⇨ Show the title entry screen.

3
⇨ Select a character. (🔍 28)

4 ⏮ ⏭
⇨ Move to the next (or previous) character position.

5 Repeat steps **3** and **4** until you have finished entering the title.

6
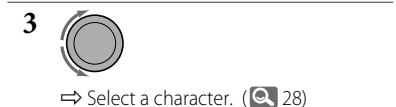
To erase the entire title, press and hold DISP is step **2**, then press the control dial to confirm.

More about this unit

Basic operations

Turning off the power

- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.

General

- If you change the source while listening to a disc, playback stops. Next time you select "CD" as the playback source, playback will start from where it had been stopped previously.
- After ejecting a disc, "NO DISC" appears and you cannot operate some of the buttons. Insert another disc or press ⏻ / **SOURCE** to select another playback source.
- If no operation is done for about 60 seconds after pressing **MENU** button, the operation will be canceled.

Tuner operations

Storing stations in memory

- During SSM search...
  - All previously stored stations are erased and the stations are stored anew.
  - When SSM is over, the station stored in the lowest preset number will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- When a disc is inserted upside down, "PLEASE" and "EJECT" appear alternately on the display. Press ⏏ to eject the disc.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.

• Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
  – Discs are dirty or scratched.
  – Moisture condensation has occurred on the lens inside the unit.
  – The pickup lens inside the unit is dirty.
  – The files on the CD-R/CD-RW are written using the "Packet Write" method.
  – There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
• CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
• Do not use the following CD-Rs or CD-RWs:
  – Discs with stickers, labels, or a protective seal stuck to the surface.
  – Discs on which labels can be directly printed by an ink jet printer.
  Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

• This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
• This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
• This unit can display only one-byte characters. No other characters can be correctly displayed.
• This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate: 8 kbps — 320 kbps
  – Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
  – Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows long file name

• The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  – ISO 9660 Level 1: up to 12 characters
  – ISO 9660 Level 2: up to 31 characters
  – Romeo: up to 128 characters
  – Joliet: up to 64 characters
  – Windows long file name: up to 128 characters
• This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
• This unit can play back files recorded in VBR (variable bit rate).
  Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
• This unit cannot play back the following files:
  – MP3 files encoded in MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files which are not based upon Windows Media ® Audio.
  – WMA files copy-protected with DRM.
  – Files which have data such as AIFF, ATRAC3, etc.
• The search function works but search speed is not constant.

Ejecting a disc

• If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust. Playback starts automatically.

Bluetooth operations

• While driving, do not perform complicated operation such as dialing the numbers, using phone book, etc. When you perform these operations, stop your car in a safe place.
• Some Bluetooth devices may not be connected to this unit depending on the Bluetooth version of the device.
• This unit may not work for some Bluetooth devices.
• Connecting condition may vary depending on the circumstances around you.
• When the unit is turned off, the device is disconnected.

HD Radio reception

• HD Radio broadcasting can normally be received in the USA, and it may also be received in countries where limited broadcasting has already begun.
• During SSM search...
  – All stations including conventional FM/AM stations are searched and stored for the selected band.

Satellite radio

• To know more about SIRIUS Satellite radio or to sign up, visit <http://www.sirius.com>.
• For the latest channel listings and programming information, or to sign up for XM Satellite radio, visit <http://www.xmradio.com>.

Available characters

A	B	C	D	E	F	G	H	I
J	K	L	M	N	O	P	Q	R
S	T	U	V	W	X	Y	Z	0
1	2	3	4	5	6	7	8	9
—	/	<	>	Space				

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors.

To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.
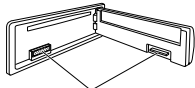
Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:
• After starting the heater in the car.
• If it becomes very humid inside the car.
Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

Center holder

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.
• Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).
• Make sure to store discs in cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

• Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.

To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

Single CD—8 cm (3-3/16") disc	Warped disc
Sticker and sticker residue	Stick-on label
Unusual shape	C-thru Disc (semitransparent disc)
Transparent or semitransparent parts on its recording area	

Troubleshooting

Symptom	Remedy/Cause
General	
Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Make sure the unit is not muted/paused (🔍 6). • Check the cords and connections.
"PROTECT" appears on the display and no operations can be done.	Check to be sure the terminals of the speaker leads are covered with insulating tape properly, then reset the unit (🔍 3). If "PROTECT" does not disappear, consult your JVC car audio dealer or a company supplying kits.
The unit does not work at all.	Reset the unit. (🔍 3)
"AUX" cannot be selected.	Check the <SRC SELECT> ➔ <AUX IN> setting. (🔍 24)
FM/AM	
SSM automatic presetting does not work.	Store stations manually.
Static noise while listening to the radio.	Connect the antenna firmly.
"AM" cannot be selected.	Check the <SRC SELECT> ➔ <AM> setting. (🔍 24)
Disc playback	
Disc cannot be played back.	Insert the disc correctly.
• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
Disc can neither be played back nor ejected.	• Unlock the disc. (🔍 8) • Eject the disc forcibly. (🔍 3)
Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
"NO DISC" appears on the display.	Insert a playable disc into the loading slot.
"PLEASE" and "EJECT" appear alternately on the display.	Press ⏏, then insert a disc correctly.

Symptom	Remedy/Cause
MP3/WMA playback — Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, orJoliet. • Add the extension code <.mp3> or <.wma> to the file names.
Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
A longer readout time is required ("READING" keeps flashing on the display).	Do not use too many hierarchical levels and folders.
Tracks do not play back in the order you have intended them to play.	The playback order is determined when the files are recorded.
The elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
The correct characters are not displayed(e.g. album name).	This unit can only display letters (upper case), numbers, and a limited number of symbols.
Bluetooth * — Bluetooth device does not detect the unit.	The unit can be connected with one Bluetooth mobile phone and one Bluetooth audio device at a time. While connecting a device, this unit cannot be detected from another device. Disconnect currently connected device and search again.
The unit does not detect the Bluetooth device.	• Check the Bluetooth setting of the device. • Search from the Bluetooth device. After the device detects the unit, select "OPEN" on the unit to connect the device. (🔍 10)

* For Bluetooth operations, refer also to the instructions supplied with the Bluetooth Adapter.

Symptom	Remedy/Cause
Bluetooth The unit does not make pairing with the Bluetooth device.	• Enter the same PIN code for both the unit and target device. • Select the device name from "SPECIAL," then try to connect again. (🔍 11) • Try to pair/connect from the Bluetooth device.
Echo or noise occurs.	Adjust the microphone unit position.
Phone sound quality is poor.	• Reduce the distance between the unit and the Bluetooth mobile phone. • Move the car to a place where you can get a better signal reception.
The sound is interrupted or skipped during playback of a Bluetooth audio device.	• Reduce the distance between the unit and the Bluetooth audio device. • Disconnect the device connected for "BT-PHONE." • Turn off, then turn on the unit. • (When the sound is not yet restored,) connect the device again.
The connected audio device cannot be controlled.	Check whether the connected audio device supports AVRCP (Audio/Video Remote Control Profile).
HD Radio reception Sound quality changes when receiving HD Radio stations.	Fix the reception mode either to <DIGITAL> or <ANALOG>. (🔍 15, 21)
No sound can be heard.	• <ANALOG> is selected when receiving all digital broadcast of HD Radio station. Select <DIGITAL> or <AUTO>. (🔍 15, 21) • <DIGITAL> is selected when receiving weak digital signals or receiving conventional radio broadcast. Select <ANALOG> or <AUTO>. (🔍 15, 21)
"RESET 8" appears on the display.	Reconnect this unit and the HD Radio tuner box correctly, then reset the unit.

Symptom	Remedy/Cause
"CALL 1-888-539-SIRIUS TO SUBSCRIBE" scrolls on the display while listening to the SIRIUS Satellite radio.	Starts subscribing to SIRIUS Satellite radio. (🔍 17)
No sound can be heard. "UPDATING" appears on the display.	The unit is updating the channel information and it takes a few minutes to complete.
"ACQUIRING" or "NO SIGNAL" appears on the display.	Move to an area where signals are stronger.
"NO ANTENNA" or "ANTENNA"appears on the display.	Connect the antenna firmly.
"NO CHANNEL" appears on the display for about 5 seconds, then returns to the previous channel or default channel while listening to the SIRIUS Satellite radio.	No broadcast on the selected channel. Select another channel or continue listening to the previous channel or default channel.
Blank display appears.	No text information for the selected channel.
"CH---" or "CH UNAVAIL" appears on the display for about 2 seconds, then returns to the previous channel while listening to the XM Satellite radio.	Selected channel is no longer available or is unauthorized. Select another channel or continue listening to the previous channel.
"OFF AIR" appears on the display while listening to the XM Satellite radio.	Selected channel is not broadcasting at this time. Select another channel or continue listening to the previous channel.
"LOADING" appears on the display while listening to the XM Satellite radio.	The unit is loading the channel information and audio. Text information are temporarily unavailable.
• "RESET 8" appears on the display. • Satellite radio does not work at all.	Reconnect this unit and the satellite radio correctly and reset this unit.

Satellite Radio

Specifications

AUDIO AMPLIFIER SECTION	Power Output:	20 W RMS × 4 Channels at 4 Ω and ≤ 1% THD+N		
	Signal-to-Noise Ratio:	80 dBA (reference: 1 W into 4 Ω)		
	Load Impedance:		4 Ω (4 Ω to 8 Ω allowance)	
	Tone Control Range:		Bass:	±12 dB (60 Hz, 80 Hz, 100 Hz, 200 Hz) Q1.0, Q1.25, Q1.5, Q2.0
			Middle:	±12 dB (0.5 kHz, 1.0 kHz, 1.5 kHz, 2.5 kHz) Q0.75, Q1.0, Q1.25
			Treble:	±12 dB (10.0 kHz, 12.5 kHz, 15.0 kHz, 17.5 kHz) Q (Fixed)
	Frequency Response:		40 Hz to 20 000 Hz	
	Line-Out Level/Impedance:		KD-A315:	5.0 V/20 kΩ load (full scale)
			KD-R310:	2.5 V/20 kΩ load (full scale)
	Subwoofer-Out Level/Impedance:		KD-A315:	5.0 V/20 kΩ load (full scale)
			KD-R310:	2.5 V/20 kΩ load (full scale)
	Output Impedance:		1 kΩ	
	Other Terminal:		AUX (auxiliary) input jack, Expansion port, Steering wheel remote input (only for KD-A315), Antenna input	
TUNER SECTION	Frequency Range:	FM:	with channel interval set to 100 kHz or 200 kHz	87.5 MHz to 107.9 MHz
			with channel interval set to 50 kHz	87.5 MHz to 108.0 MHz
		AM:	with channel interval set to 10 kHz	530 kHz to 1 710 kHz
			with channel interval set to 9 kHz	531 kHz to 1 602 kHz
	FM Tuner:		Usable Sensitivity:	9.3 dBf (0.8 μV/75 Ω)
			50 dB Quieting Sensitivity:	16.3 dBf (1.8 μV/75 Ω)
			Alternate Channel Selectivity (400 kHz):	65 dB
			Frequency Response:	40 Hz to 15 000 Hz
			Stereo Separation:	40 dB
	AM Tuner:		Sensitivity:	20 μV
			Selectivity:	40 dB

CD PLAYER SECTION	Type:		Compact disc player
	Signal Detection System:		Non-contact optical pickup (semiconductor laser)
	Number of Channels:		2 channels (stereo)
	Frequency Response:		5 Hz to 20 000 Hz
	Dynamic Range:		93 dB
	Signal-to-Noise Ratio:		98 dB
	Wow and Flutter:		Less than measurable limit
	MP3 Decoding Format: (MPEG1/2 Audio Layer 3)		Max. Bit Rate: 320 kbps
	WMA (Windows Media® Audio) Decoding Format:		Max. Bit Rate: 192 kbps
GENERAL	Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
	Grounding System:		Negative ground
	Allowable Operating Temperature:		0°C to +40°C (32°F to 104°F)
	Dimensions (W × H × D): (approx.)	Installation Size:	182 mm × 52 mm × 160 mm (7-3/16″ × 2-1/16″ × 6-5/16″)
		Panel Size:	188 mm × 58 mm × 6 mm (7-7/16″ × 2-5/16″ × 1/4″)
	Mass:		1.3 kg (2.9 lbs) (excluding accessories)

Design and specifications are subject to change without notice.

If a kit is necessary for your car, consult your telephone directory for the nearest car audio speciality shop.

JVC

■ **The countries where you may use the Bluetooth® function**

- **Die Länder, in denen Sie die Bluetooth® Funktion verwenden können**
- **Pays où vous pouvez utiliser la fonction Bluetooth®**
- **De landen waar u de Bluetooth®-functie mag gebruiken**
- **Países en los que se puede utilizar la función Bluetooth®**
- **Paesi nei quali è possibile utilizzare la funzione Bluetooth®**
- **Länder där du kan använda Bluetooth®-funktionen**
- **Lande, hvor du kan bruge Bluetooth®-funktionen**
- **Land hvor du kan bruke Bluetooth®-funksjonen**
- **Maat, joissa voi käyttää Bluetooth®-toimintoa**
- **Países onde pode usar a função Bluetooth®**
- **Οι χώρες όπου μπορείτε να χρησιμοποιήσετε τη λειτουργία Bluetooth®**
- **Страны, где можно воспользоваться функцией Bluetooth®**
- **Země, ve kterých můžete využívat funkci Bluetooth®**
- **Azok az országok, amelyekben használhatjuk a Bluetooth®-funkciót**
- **Kraje, w których można używać funkcji Bluetooth®**
- **Države, kjer lahko uporabljate funkcijo Bluetooth®**
- **Krajiny, v ktorých môžete využívať funkciu Bluetooth®**
- **Valstis, kur jūs varat izmantot Bluetooth® funkciju**
- **Šalys, kuriose galite naudotis „Bluetooth®" funkcija**
- **Il-pajjiżi fejn tista' tuża l-funzjoni Bluetooth®**
- **Lönd þar sem hægt er að nota Bluetooth®**
- **Riigid, kus on võimalik kasutada Bluetooth® funktsiooni**
- **Bluetooth® fonksiyonunu kullanabileceğiniz ülkeler**
- **Na tíortha inar féidir leat feidhmiú Bluetooth® a úsáid**
- **Länner an denen der d'Bluetooth® Funktioun benotze kënnt.**
- **Ở những quốc gia mà bạn có thể sử dụng chức năng Bluetooth®**
- **Els països on podrà fer servir la funció Bluetooth®**
- **Zemlje u kojima je dozvoljena upotreba Bluetooth® funkcije.**
- **Zemlje u kojima možete koristiti Bluetooth® funkciju**
- **Zemlje u kojima je dopušteno koristiti Bluetooth®.**
- **Земји каде можете да ја користите функцијата Bluetooth®**
- **Страните, в които можете да ползвате функцията Bluetooth®**
- **Țările în care puteți utiliza funcția Bluetooth®**
- **Die lande waar u die Bluetooth®-funksie kan gebruik**
- **Amazwe lapho ungasebenzisa khona uhlelo lwe-Bluetooth®**
- **Negara-negara yang memperbolehkan penggunaan fungsi Bluetooth®**
- **Negara-negara yang anda boleh menggunakan fungsi Bluetooth®**
- **您能够使用 Bluetooth® 功能的国家**
- **您能夠使用 Bluetooth® 功能的國家**

■ **המדינות שבהן באפשרותך להשתמש בפונקציית ה-®Bluetooth**
■ **الدول التي يمكنك استخدام وظيفة ®Bluetooth فيها**

i

Country
Andorra
الإمارات العربية المتحدة
Australia
Österreich
Bosna i Hercegovina
Belgien Belgique
България
Canada
Schweiz Suisse
Κύπρος Kıbrıs
Česká republika
Deutschland
Danmark
Eesti
España
Suomi Finland
France
United Kingdom
Ελλάδα
Hong Kong 香港 香港
Hrvatska
Magyarország
Indonesia
Ireland Éire
ישראל إسرائيل
Ísland
Italia
Lichtenstein
Lietuva

Country
Luxemburg Luxembourg Lëtzebuerg
Latvija
Monaco
Crna Gora
Македонија
Malta
Nederland
Norge
New Zealand
Polska
Portugal
România
Srbija
Россия
Sverige
Singapore 新加坡 Singapura
Slovenija
Slovensko
Türkiye
台湾
United States of America
Vietnam Việt Nam
South Africa ENingizimu Afrika Suid-Afrika

09-1672-002

Having TROUBLE with operation?
Please reset your unit
Refer to page of How to reset your unit
Still having trouble??

USA ONLY

Call 1-800-252-5722
http://www.jvc.com
We can help you!

JVC

EN, SP, FR
© 2009 Victor Company of Japan, Limited

0909DTSMDTJEIN

JVC KD-A315/KD-R310

Installation/Connection Manual
Manual de instalación/conexión
**Manuel d'installation/raccordement**

GET0626-002A
[J]

ENGLISH / ESPAÑOL / FRANÇAIS

You need the installation kits which corresponds to your car. / Necesitará los kits de instalación que corresponden con su vehículo. / Vous avez besoin des kits d'installation correspondants à votre voiture.
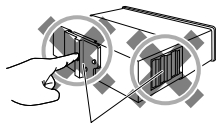
Check the battery system in your car / Verifique el sistema de batería de su vehículo / Vérifiez le système de batterie de votre voiture.

To the car system / Al sistema de automóvil / Au système autoradio

12 V
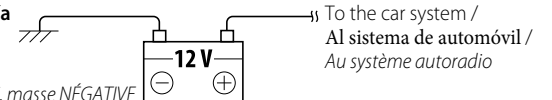
12 V DC, NEGATIVE ground / **12 V CC, NEGATIVO a masa** / 12 V CC, masse NÉGATIVE

WARNINGS / ADVERTENCIAS / AVERTISSEMENTS

• To prevent short circuits:
 –Disconnect the battery's negative terminal and make all electrical connections before installing the unit.
 –Cover the terminals of the UNUSED leads with insulating tape.
• Be sure to ground this unit to the car's chassis again after installation.
• Replace the fuse with one of the specified rating.
• Connect speakers with a maximum power of more than 50 W (impedance of 4 Ω to 8 Ω). Otherwise, change the <AMP GAIN> setting. (See page 23 of the INSTRUCTIONS.)
• The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.

• Para evitar cortocircuitos:
 –Desconecte el terminal negativo de la batería y realice todas las conexiones eléctricas antes de instalar la unidad.
 –Cubra los terminales de los conductores NO UTILIZADOS con cinta aislante.
• Asegúrese de volver a conectar a masa esta unidad al chasis del automóvil después de la instalación.
• Reemplace el fusible por uno con la corriente especificada.
• Conecte los altavoces con una potencia máxima de más de 50 W (impedancia de 4 Ω a 8 Ω). De lo contrario, cambie el ajuste <AMP GAIN>. (Véase la página 23 del MANUAL DE INSTRUCCIONES).
• El sumidero térmico estará muy caliente después del uso. Asegúrese de no tocarlo al desmontar esta unidad.

• Pour éviter les courts-circuits:
 –Déconnectez la borne négative de la batterie et réaliser toutes les connexions avant d'installer l'appareil.
 –Recouvrez les prises des fils NON UTILISÉS avec du ruban isolant.
• Assurez-vous de raccorder de nouveau la mise à la masse de cet appareil au châssis de la voiture après l'installation.
• Remplacer le fusible par un de la valeur précisée.
• Connectez des enceintes avec une puissance maximum de 50 W (impédance de 4 Ω à 8 Ω). Sinon, changez le réglage <AMP GAIN>. (Voir la page 23 du MANUEL D'INSTRUCTIONS.)
• Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.

Heat sink / **Sumidero térmico** / Dissipateur de chaleur

INSTALLATION / INSTALACION / INSTALLATION

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

La siguiente ilustración muestra una instalación típica. Si tiene alguna pregunta o necesita información acerca de las herramientas para instalación, consulte con su concesionario de JVC de equipos de audio para automóviles o a una compañía que suministra tales herramientas.

L'illustration suivante est un exemple d'installation typique. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

In-dash mounting / Montaje en el tablero / Montage encastré

1

2

3

Do the required electrical connections.
Realice las conexiones eléctricas requeridas.
Réalisez les connexions électriques.

Install the unit at an angle of less than 30˚.
Instale la unidad a un ángulo de menos de 30˚.
Installez l'appareil avec un angle de moins de 30˚.

184 mm (7-1/4") 53 mm (2-1/8")

30°

Bend the appropriate tabs to hold the sleeve firmly in place.
Doble las lengüetas apropiadas para retener firmemente la manga en su lugar.
Tordez les languettes appropriées pour maintenir le manchon en place.

Part list / Lista de componentes / Liste de pièces

Ⓐ Control panel / Panel de control / Panneau de commande (×1)
Ⓑ Sleeve / Cubierta / Manchon (×1)
Ⓒ Trim plate / Placa de guarnición / Plaque d'assemblage (×1)
Ⓓ Power cord / Cordón de alimentación / Cordon d'alimentation (×1)
Ⓔ Handles / Manijas / Poignées (×2)

When installing the unit without using the sleeve / Instalación de la unidad sin utilizar la cubierta / Lors de l'installation de l'appareil scans utiliser de manchon

Flat head screws—M5 × 8 mm (M5 × 3/8") / Tornillos de cabeza plana—M5 × 8 mm (M5 × 3/8 pulgada) / Vis à tête plate—M5 × 8 mm (M5 × 3/8 pouces) *2
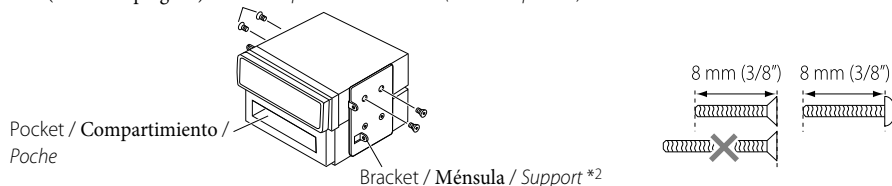
Pocket / Compartimiento / Poche

8 mm (3/8") 8 mm (3/8")

Bracket / Ménsula / Support *2

Removing the unit / Extracción de la unidad / Retrait de l'appareil

Release the rear section first... / Primero libere la sección trasera... / Ouvrez la section arrière en premier...

*1 When you stand the unit, be careful not to damage the fuse on the rear.
*2 Not supplied for this unit.

*1 Al poner la unidad vertical, tenga cuidado de no dañar el fusible provisto en la parte posterior.
*2 No suministrado con esta unidad.
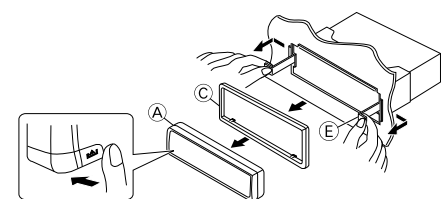
*1 Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.
*2 Non fourni avec cet appareil.

TROUBLESHOOTING / LOCALIZACION DE AVERIAS / EN CAS DE DIFFICULTES

• **The fuse blows.** ⇨ Are the red and black leads connected correctly?
• **Power cannot be turned on.** ⇨ Is the yellow lead connected?
• **No sound from the speakers.** ⇨ Is the speaker output lead short-circuited?
• **"PROTECT" appears on the display and no operation can be done.** ⇨ Is the speaker output lead short-circuited or touches the chassis of the car/head unit? ; Have you reset your unit?
• **Sound is distorted.** ⇨ Is the speaker output lead grounded? ; Are the "–" terminals of L and R speakers grounded in common?
• **Noise interfere with sounds.** ⇨ Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
• **This unit becomes hot.** ⇨ Is the speaker output lead grounded? ; Are the "–" terminals of L and R speakers grounded in common?
• **This unit does not work at all.** ⇨ Have you reset your unit?

• **El fusible se quema.** ⇨ ¿Están los conductores rojo y negro correctamente conectados?
• **No es posible conectar la alimentación.** ⇨ ¿Está el cable amarillo conectado?
• **No sale sonido de los altavoces.** ⇨ ¿Está el cable de salida del altavoz cortocircuitado?
• **Aparece "PROTECT" en la pantalla y no se puede realizar ninguna operación.** ⇨ ¿El conductor de salida de altavoz está en cortocircuito o en contacto con el chasis del automóvil/auriculares? ; ¿Reinicializó la unidad?
• **El sonido presenta distorsión.** ⇨ ¿Está el cable de salida del altavoz conectado a masa? ; ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?
• **Perturbación de ruido.** ⇨ ¿El terminal de tierra trasero está conectado al chasis del automóvil utilizando los cordones más corto y más grueso?
• **Esta unidad se calienta.** ⇨ ¿Está el cable de salida del altavoz conectado a masa? ; ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?
• **Esta unidad no funciona en absoluto.** ⇨ ¿Reinicializó la unidad?

• **Le fusible saute.** ⇨ Les fils rouge et noir sont-ils racordés correctement?
• **L'appareil ne peut pas être mise sous tension.** ⇨ Le fil jaune est-elle raccordée?
• **Pas de son des enceintes.** ⇨ Le fil de sortie d'enceinte est-il court-circuité?
• **"PROTECT" apparaît sur l'affichage et aucune opération ne peut être réalisée.** ⇨ Est-ce qu'un fil de sortie d'enceinte est court-circuité ou touche le châssis de la voiture/appareil principal? ; Avez-vous réinitialisé votre appareil?
• **Le son est déformé.** ⇨ Le fil de sortie d'enceinte est-il à la masse? ; Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?
• **Interférence avec les sons.** ⇨ La prise arrière de mise à la terre est-elle connectée au châssis de la voiture avec un cordon court et épais?
• **Cet appareil devient chaud.** ⇨ Le fil de sortie d'enceinte est-il à la masse? ; Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?
• **Cet appareil ne fonctionne pas du tout.** ⇨ Avez-vous réinitialisé votre appareil?

ELECTRICAL CONNECTIONS / CONEXIONES ELECTRICAS / RACCORDEMENTS ELECTRIQUES

PRECAUTIONS on power supply and speaker connections
- DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.
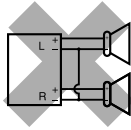
PRECAUCIONES sobre las conexiones de la fuente de alimentación y de los altavoces
- NO conecte los conductores de altavoz del cable de alimentación a la batería de automóvil, pues podrían producirse graves daños en la unidad.
- ANTES de conectar a los altavoces los conductores de altavoz del cable de alimentación, verifique el conexionado de altavoz de su automóvil.
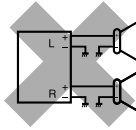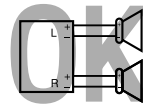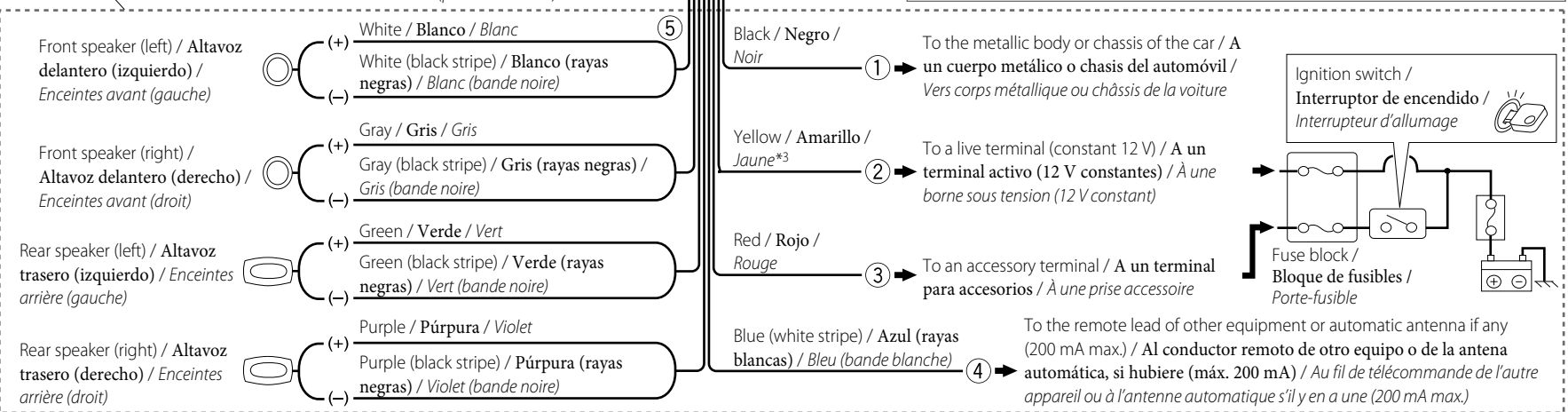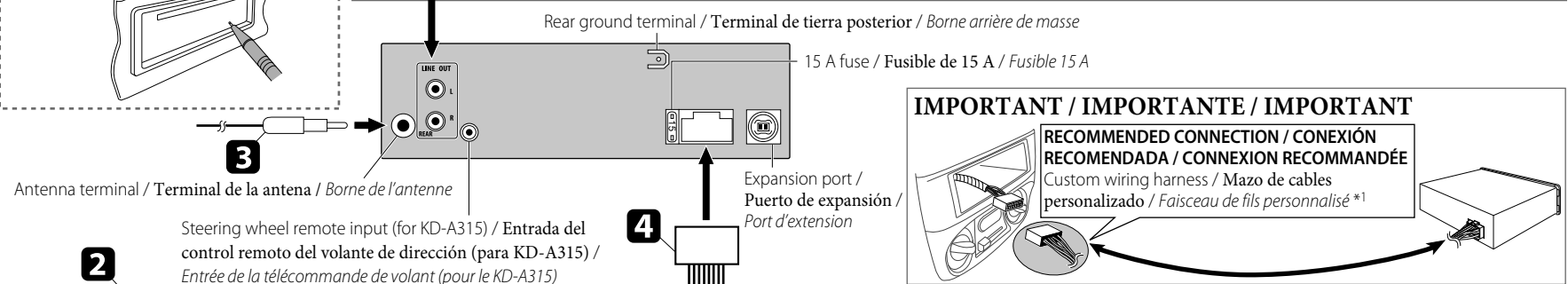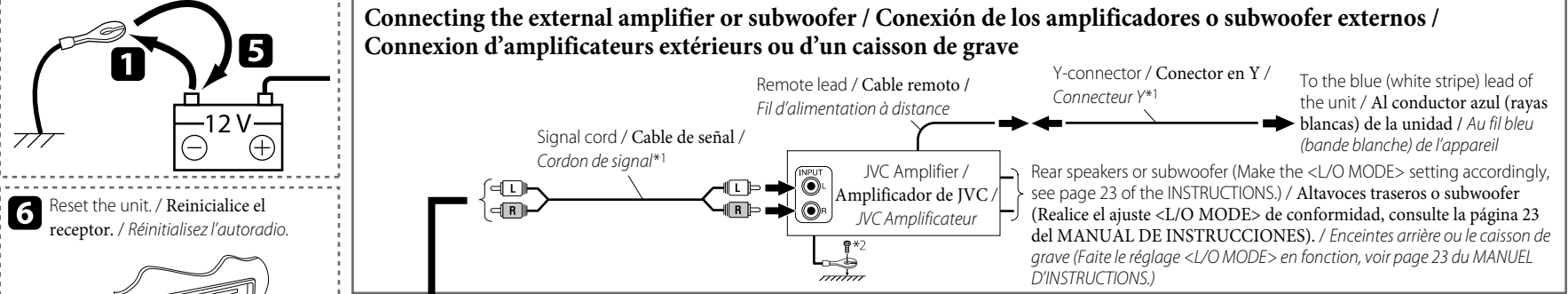
PRECAUTIONS sur l'alimentation et la connexion des enceintes
- NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.
- AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.

OK

1 **5**

—12 V—

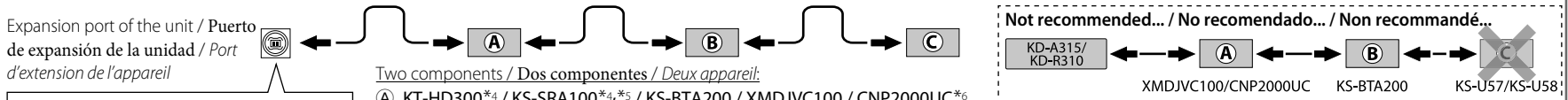**6** Reset the unit. / Reinicialice el receptor. / Réinitialisez l'autoradio.

3

Connecting the external amplifier or subwoofer / Conexión de los amplificadores o subwoofer externos / Connexion d'amplificateurs extérieurs ou d'un caisson de grave

Remote lead / Cable remoto / Fil d'alimentation à distance

Y-connector / Conector en Y / Connecteur Y*1

To the blue (white stripe) lead of the unit / Al conductor azul (rayas blancas) de la unidad / Au fil bleu (bande blanche) de l'appareil

Signal cord / Cable de señal / Cordon de signal*1

JVC Amplifier / Amplificador de JVC / JVC Amplificateur

INPUT *2

Rear speakers or subwoofer (Make the <L/O MODE> setting accordingly, see page 23 of the INSTRUCTIONS.) / Altavoces traseros o subwoofer (Realice el ajuste <L/O MODE> de conformidad, consulte la página 23 del MANUAL DE INSTRUCCIONES.) / Enceintes arrière ou le caisson de grave (Faite le réglage <L/O MODE> en fonction, voir page 23 du MANUEL D'INSTRUCTIONS.)

Rear ground terminal / Terminal de tierra posterior / Borne arrière de masse

15 A fuse / Fusible de 15 A / Fusible 15 A

Antenna terminal / Terminal de la antena / Borne de l'antenne

Expansion port / Puerto de expansión / Port d'extension

Steering wheel remote input (for KD-A315) / Entrada del control remoto del volante de dirección (para KD-A315) / Entrée de la télécommande de volant (pour le KD-A315)

4

2

IMPORTANT / IMPORTANTE / IMPORTANT
RECOMMENDED CONNECTION / CONEXIÓN RECOMENDADA / CONNEXION RECOMMANDÉE
Custom wiring harness / Mazo de cables personalizado / Faisceau de fils personnalisé *1

Front speaker (left) / Altavoz delantero (izquierdo) / Enceintes avant (gauche)
(+) White / Blanco / Blanc
(−) White (black stripe) / Blanco (rayas negras) / Blanc (bande noire)

Front speaker (right) / Altavoz delantero (derecho) / Enceintes avant (droit)
(+) Gray / Gris / Gris
(−) Gray (black stripe) / Gris (rayas negras) / Gris (bande noire)

Rear speaker (left) / Altavoz trasero (izquierdo) / Enceintes arrière (gauche)
(+) Green / Verde / Vert
(−) Green (black stripe) / Verde (rayas negras) / Vert (bande noire)

Rear speaker (right) / Altavoz trasero (derecho) / Enceintes arrière (droit)
(+) Purple / Púrpura / Violet
(−) Purple (black stripe) / Púrpura (rayas negras) / Violet (bande noire)

⑤ Black / Negro / Noir
① To the metallic body or chassis of the car / A un cuerpo metálico o chasis del automóvil / Vers corps métallique ou châssis de la voiture

Yellow / Amarillo / Jaune*3
② To a live terminal (constant 12 V) / A un terminal activo (12 V constantes) / À une borne sous tension (12 V constant)

Red / Rojo / Rouge
③ To an accessory terminal / A un terminal para accesorios / À une prise accessoire

Blue (white stripe) / Azul (rayas blancas) / Bleu (bande blanche)
④ To the remote lead of other equipment or automatic antenna if any (200 mA max.) / Al conductor remoto de otro equipo o de la antena automática, si hubiere (máx. 200 mA) / Au fil de télécommande de l'autre appareil ou à l'antenne automatique s'il y en a une (200 mA max.)

Ignition switch / Interruptor de encendido / Interrupteur d'allumage

Fuse block / Bloque de fusibles / Porte-fusible

Connecting the external components in series / Conexión de componentes externos en serie / Connexion d'appareils extérieurs en série

When connecting the external components, refer also to the manuals supplied for the components and adapter. / Cuando conecte componentes externos, consulte, también, los manuales suministrados con los componentes y el adaptador. / Lors de la connexion des appareils extérieurs, référez-vous aussi aux manuels fournis avec les appareils et les adaptateurs.

Expansion port of the unit / Puerto de expansión de la unidad / Port d'extension de l'appareil

A **B** **C**

Two components / Dos componentes / Deux appareil:
Ⓐ KT-HD300*4 / KS-SRA100*4,*5 / KS-BTA200 / XMDJVC100 / CNP2000UC*6
Ⓑ KS-U57 / KS-U58

Three components / Tres componentes / Trois appareils:
Ⓐ KT-HD300*4 / KS-SRA100*4,*5 / XMDJVC100 / CNP2000UC*6
Ⓑ KS-BTA200
Ⓒ KS-U57 / KS-U58

To disconnect... / Para desconectar... / Pour déconnecter...
1 **2**

Not recommended... / No recomendado... / Non recommandé...
KD-A315/ KD-R310 → Ⓐ XMDJVC100/CNP2000UC → Ⓑ KS-BTA200 → KS-U57/KS-U58

Caution / Precaucion / Precaution:
Before connecting the external components, make sure that the unit is turned off. / Antes de conectar los componentes externos, asegúrese de que la unidad esté apagada. / Avant de connecter les appareils extérieurs, assurez-vous que l'appareil est hors tension.

You can connect the HD Radio™ tuner box (KT-HD300) or the following components through the various JVC adapters or system to the expansion port. / Puede conectar el sintonizador HD Radio™ (KT-HD300) o los siguientes componentes al puerto de expansión, a través de los diversos adaptadores o sistema JVC. / Vous pouvez connecter le tuner HD Radio™ (KT-HD300) ou les appareils suivants à l'aide de divers adaptateur JVC ou système au port d'extension.
- Connection cords may need to be purchased separately. / Puede ser necesario comprar los cables de conexión por separado. / Vous pouvez avoir besoin d'acheter certains cordons de connexion séparément.

Component / Componente / Appareil	Adapter/System / Adaptador/Sistema / Adaptateur/Système	Model name / Nombre del modelo / Nom du modèle
Bluetooth device / Dispositivo Bluetooth / Périphérique Bluetooth	Bluetooth adapter / Adaptador Bluetooth / Adaptateur Bluetooth	KS-BTA200
XMDirect™ Tuner Box / XMDirect™ Tuner Box / XMDirect™ Tuner Box	Smart Digital Adapter / Adaptador digital inteligente / Adaptateur numérique intelligent	XMDJVC100
XMDirect2 Tuner System / Sistema de sintonizador XMDirect2 / XMDirect2 Tuner System	XM satellite radio System / Sistema de radio XM Satellite / Système radio satellite XM	CNP2000UC, CNPJVC1
SIRIUS satellite radio / Radio por satélite SIRIUS / Radio satellite SIRIUS	SIRIUS satellite radio System / Sistema de radio satelital SIRIUS / Système radio satellite SIRIUS	SC-C1, KS-SRA100
		PnP, SC-VDOC1, KS-SRA100
Portable audio player with line output jacks / Reproductor de audio portátil con jacks de salida de línea / Lecteur audio portable avec prises de sortie de ligne	Line input adapter / Adaptador de entrada por línea / Adaptateur d'entrée de ligne	KS-U57
Portable audio player with 3.5 mm (3/16") stereo mini jack / Reproductor de audio portátil con jack mini estéreo de 3,5 mm (3/16 pulgada) / Lecteur audio portable avec mini fiche stéréo de 3,5 mm (3/16 pouces)	AUX input adapter / Adaptador de entrada AUX / Adaptateur d'entrée auxiliaire	KS-U58

XM Radio and SIRIUS satellite radio cannot be used together. / No puede utilizar juntas la radio XM y la radio satelital SIRIUS. / La radio XM et SIRIUS ne peuvent pas être utilisées en même temps.
- HD Radio™ is a proprietary trademark of iBiquity Digital Corp. / HD Radio™ es una marca comercial de iBiquity Digital Corp. / HD Radio™ est une marque de commerce d'iBiquity Digital Corp.

*1 Not supplied for this unit.
*2 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint.
*3 Before checking the operation of this unit prior to installation, this lead must be connected; otherwise, the power cannot be turned on.
*4 Connect the power cord supplied for the component separately for power supply.
*5 This model is a component of SIRIUS satellite radio System.
*6 This model is a component of XM satellite radio System.

*1 No suministrado con esta unidad.
*2 Fije firmemente el cable de tierra a la carrocería metálica o al chasis—a un lugar no cubierto con pintura.
*3 Antes de comprobar el funcionamiento de esta unidad previa a de la instalación, es necesario conectar este cable, de lo contrario no se podrá conectar la alimentación.
*4 Conecte el cable de alimentación suministrado separadamente para el componente.
*5 Este modelo es un componente del sistema de radio satelital SIRIUS.
*6 Este modelo es un componente del sistema de radio XM Satellite.

*1 Non fourni avec cet appareil.
*2 Attachez solidement le fil de mise à la masse au châssis métallique de la voiture—à un endroit qui n'est pas recouvert de peinture.
*3 Pour vérifier le fonctionnement de cet appareil avant installation, ce fil doit être raccordé, sinon l'appareil ne peut être mis sous tension.
*4 Connectez le cordon d'alimentation fourni avec les appareils séparément à l'alimentation.
*5 Ce modèle est un composant du système radio satellite SIRIUS.
*6 Ce modèle est un composant du système radio satellite XM.